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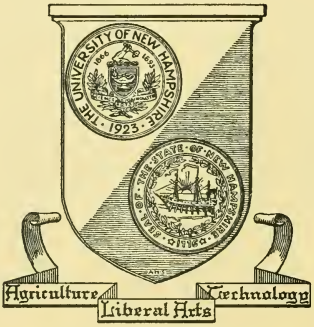

The University
of
New Hampshire

Bulletin 377 July, 1949

THE UNIVERSITY OF NEW HAMPSHIRE

AGRICULTURAL EXPERIMENT STATION

Department of Agricultural and Biological Chemistry

Inspection of Commercial Feedingstuffs

Made for the

State Department of Agriculture

By H. A. DAVIS, S. H. ROSEMAN, and T. O. SMITH

The University of New Hampshire
Durham, N. H.

INSPECTION OF COMMERCIAL FEEDINGSTUFFS

Made for the

STATE DEPARTMENT OF AGRICULTURE

The inspection of commercial feedingstuffs reported in this bulletin was made under the direction of Honorable Perley I. Fitts, Commissioner of Agriculture. Mr. George H. Laramie, Feed Control Supervisor, and Mr. Vincent P. Peterson, Inspector, collected 636 samples of feedingstuffs which were offered for sale in the state during the year ending June, 1949. The 636 samples represent 614 brands of 115 manufacturers. All inquiries concerning the law and the registration of feedingstuffs should be addressed to the Feed Control Supervisor, State House, Concord.

REGISTRATION AND LABELING OF FEEDINGSTUFFS

Registration—The New Hampshire feedingstuffs law requires registration of each brand of feedingstuff offered for sale. Feedingstuffs are defined in the revised law as follows:

"**Definition**—The terms 'concentrated commercial feedingstuff' or 'feedingstuff' as used in this chapter shall include all commercial feedingstuffs used for feeding wild animals and birds kept in captivity, domestic animals and poultry, except hay, straw, whole seed, unmixed meals made directly from the entire grains of wheat, rye, barley, oats, Indian corn, broom corn, buckwheat, and mixed grains the ingredients of which may be readily determined."

The feedingstuff is usually registered by the manufacturer or jobber whether he is located within or outside the state. Feedingstuffs manufactured in other states frequently pass through several middlemen before they reach the local distributor. Under the provisions of the law, if the manufacturer or jobber fails to make registration, the dealer is responsible. Dealers who purchase feed for resale must assure themselves that the brands they purchase are properly registered and the license fee is paid; otherwise, they must assume that responsibility. The Feed Control Supervisor provides forms to be filed in his office for the registration of feeds. A copy is shown on pages 4 and 5.

New Hampshire

APPLICATION FOR REGISTRATION OF COMMERCIAL FEEDINGSTUFFS

No. .....

Date .....

To the Commissioner of Agriculture, State Dept. of Agriculture, Concord, N. H.:

The undersigned hereby makes application for registration—reregistration—supplemental registration of the following commercial feeding stuffs (for the period ending December 31, 19):

(List products to be reregistered under heading REREGISTRATIONS. List under heading SUPPLEMENTAL those products added during the year.)

Attached are product data sheets which have affixed thereto a label to be used on, or attached to the containers of feeding stuffs as required by paragraph 1 of Chapter 226, Revised Laws of N. H., Stock Foods Law. I hereby certify that the label or labels contain the information required by the law.

(Enclosed is ..... in the amount of $..... covering the registration fee for feeding stuffs. Registration fee is $15.00 for each feeding stuffs.)

Address correspondence to:

Attention ..... Firm Name .....

Street and No. ..... By .....

City and State ..... Title .....

CERTIFICATE OF REGISTRATION

This certifies (that the registration fee has been paid and) that the above-listed products are this day registered under the provision of the New Hampshire Stock Foods law, and the sale is authorized when sold, offered or exposed for sale when labeled and other-wise in compliance with the law, until cancelled for cause (for the period beginning with the actual date of registration and continuing until December 31, unless the registration of any feed or feeds are cancelled).

NEW HAMPSHIRE DEPARTMENT OF AGRICULTURE

.....
Commissioner

Date .....

INSTRUCTIONS

Application for Registration: Submit cover sheet in duplicate. One copy will be returned as your Certificate of Registration.

Product Data Sheet: One or more (8½" x 11") sheets, to which is affixed a label, or if the label has not been printed, proposed copy or printer's proof may be affixed, for each product to be registered, must accompany the application. Number the attached data sheet pages and insert the page number in parentheses on the cover sheet immediately after the name of the feed.

Brands: List these on the application cover sheets under the headings and in the order "Reregistrations" and "New Registrations." (Reregistrations are renewals from the previous year. New Registrations are brands not registered the previous year.)

Reregistrations: (Renewals of registrations) require that all cover sheets be renewed. It is not necessary to renew Product Data Sheets except with respect to information which is different from that furnished when the feeds were registered or last reregistered.

Labeling: All labeling must be in accordance with New Hampshire Stock Foods law, and all information on cover sheets and deta sheets must comply with the above law.

Labeling—The law requires every manufacturer or dealer who shall sell or offer for sale any concentrated commercial feedingstuff to furnish with each package a clearly printed statement certifying:

the number of net pounds in the package,
the name or trademark under which the article is sold,
the name of the manufacturer, shipper, or for whom the product is manufactured,
the place of business,

and a chemical analysis stating:

the minimum percentage only of crude protein,
the minimum percentage only of crude fat,
the maximum percentage only of crude fiber,

and the name of each ingredient contained in the feed. In order to secure greater uniformity in the labeling of feeds and in the statement of ingredients, the Association of American Feed Control Officials has adopted definitions and standards. The Association has also approved 22 general regulations which "should be adopted by State officials as far as the statutes will permit." There are no conflicts with the New Hampshire feedingstuffs law in these regulations. Manufacturers and dealers are, therefore expected to conform to the regulations of the Association in all matters not specifically mentined in the law.

One sentence in the New Hampshire feedingstuff law reads as follows: "..... and shall state in bold type upon the container or tag attached thereto, if a compounded feed, the names of the several ingredients therein contained." To avoid the misinterpretation or deception that may result from the manufacturer's use of indefinite terms in listing the ingredients, the Association of American Feed Control Officials has adopted 233 official definitions of ingredients used in the compounding of feedingstuffs. These definitions are subject to frequent addition and revision. At the present time there are also 45 tentative definitions and 14 that have been proposed for future discussion. Tentative definitions are those which have received favorable consideration but have not yet been made official. A 154-page booklet containing the above three classes of definitions, 22 general regulations, four tentative regulations, 23 resolutions adopted, and other instructive material may be obtained from the Secretary of the Association of American Feed Control Officials, College Park, Maryland. The manufacturer should secure a copy of this booklet and list the ingredients accurately. Carelessness or indifference in listing the ingredients should create sales resistance in the buyer. The purchaser is warranted in concluding that the manufacturer who is inaccurate in specifying the ingredients printed on the tag may be careless in selecting the ingredients he puts into the bag.

THE PURPOSE OF THE FEEDINGSTUFF LAW

The chief purpose of the feedingstuff law is to protect the consumer against the inferior products which doubtless would soon ap-

pear on the market if the trade were not under state control. The law is primarily a correct-labeling act. It must not be assumed by the purchaser of feedingstuffs that every brand which meets the manufacturer's guarantee is a high-grade feed. The feedingstuff law does not prevent the sale of a low-grade feed if it is properly licensed and tagged and is offered for sale in compliance with the law. It would not be in the public interest to legislate against the sale of the lower-grade by-products. They can be fed profitably if bought at a price adjusted to their feeding value. The law does prevent an inferior feed being offered for sale as a high-grade product.

The dealer, in purchasing feed from the manufacturer, and the consumer, in purchasing feed from the dealer, should make the specification that the feed delivered must comply with the New Hampshire feedingstuff law. If the feed is not registered; if the protein, fat, and crude fiber are not guaranteed; and if the ingredients of which the feed is composed are not plainly stated on the bag, or on a tag attached thereto, the purchaser is not protected by the state feedingstuff law. He then has no recourse under the feedingstuff law if the feed which he purchases is of inferior quality. The dealer who offers for sale a feedingstuff which has not been registered and which is not guaranteed in compliance with the law is probably indifferent to his customer's interests in other respects. He does not merit either the confidence or the patronage of the consumer. The purchaser's cooperation in refusing to buy a feed which does not conform to the law in every respect will not only help in the enforcement of the law but will at the same time secure for himself the protection of the law. If the buyer fails to assure himself that the legal requirements have been met, he accepts the feedingstuff at his own risk.

The cost of a feedingstuff inspection includes the drawing and the analysis of the samples, and the publication and mailing of the annual bulletin. The funds from which these costs are paid are accumulated from the license fees which the manufacturer is required to pay annually on each brand of feedingstuff offered for sale within the state. Since manufacturing and distributing costs are finally paid by the consumer, the purchaser of feedingstuffs is interested in the effect of the cost of the inspection on the retail price per ton. A calculation based on the known costs of the inspection and the estimated retail value of the feedingstuffs sold annually shows that the cost of the inspection is only a fraction of a cent per 100-pound bag.

The terms used in reporting the chemical analysis of a feedingstuff required by the law are briefly defined as follows: Protein is a collective term for a considerable group of compounds, all of which contain nitrogen. Ingredients high in protein are usually more expensive than the other ingredients, making protein the most important nutrient for consideration in determining the commercial value of a feedingstuff. The nutritional value of the proteins varies widely; therefore, a feedingstuff should contain protein from several sources to insure inclusion of all essential types.

Fat is separated from the other components of a feedingstuff by extracting the moisture-free sample with anhydrous ether. In such

ingredients as the cereals, the seed-meals, and animal products, the extract is nearly pure fat. A few ingredients such as alfalfa meal contain some ether-soluble material which is not fat. When urea is present the figure for the percentage of fat found may be high as much as two-tenths per cent, due to the slight solubility of urea in anhydrous ether. When sulphur is present, the percentage of fat found is much too high, since sulphur is readily soluble in anhydrous ether.

Fiber is composed of cellulose and related compounds. Since crude fiber has little feeding value, the law requires that the maximum fiber be guaranteed rather than the minimum as in protein and fat.

It is not within the scope of this bulletin to make recommendations regarding the use of commercial feedingstuffs. The Department of Dairy Husbandry and the Department of Poultry Husbandry are continuously studying feeding problems. The following publications of these departments are free to residents of New Hampshire. Address your request to Mail Service, University of New Hampshire, Durham, New Hampshire.

Folder 10	The Use of Home-grown Grains in Feeding the Dairy Herd.
Ext. Bull. 67	Turkey Production in New Hampshire, 16 pp.
Ext. Cir. 158	Feeding Chickens, 18 pp.
Ext. Cir. 250	The Home Poultry Flock, 12 pp.
Sta. Bull. 335	Protein Requirements of Chickens at Various Stages of Growth and Development II, 15 pp.
Sta. Cir. 56	Fine Versus Coarse Grit as a Feed Ingredient for Poultry, 8 pp.
Ext. Cir. 282	Dairy Calves.

While the word feedingstuff does not appear in all the above titles, no publication is included which does not discuss some aspect of the use of feedingstuffs.

Inquiries are made occasionally regarding a method of calculating the protein, fat or fiber content of a home-mixed feed. There are tables available, such as those in Morrison's book "Feeds and Feeding," which give the average chemical analysis of feed concentrates, roughages and silages. It should be pointed out that the chemical analysis of a particular lot of an ingredient may be somewhat above or below the average figure shown in the table. This fact must be taken into consideration in fixing guarantees. The following example shows how the protein content of a feed mixture may be calculated.

Ingredient	pounds used	x per cent protein	=	lbs. protein furnished by ingredient
Ground Oats	200	12.0		24
Ground Corn	400	8.0		32
Gluten Feed	300	25.0		75
Wheat Bran	400	15.0		60
Linseed Oil Meal	100	34.0		34
Salt	10	..		..
Total mix	1410 lbs.	contains		225 lbs. protein

The mixture contains $\frac{225}{1410} \times 100 = 15.95\%$ protein.

The percentage of fat or fiber may be calculated in a like manner by substituting the fat or fiber figures for those of the protein.

CONFORMITY TO THE GUARANTEES

The chemical analyses were made by the methods of the Association of Official Agricultural Chemists. Of the 636 samples analyzed, 9.3 per cent contained less than the guaranteed amount of protein; 5.5 per cent contained less than the guaranteed amount of fat, and 7.2 per cent contained crude fiber in excess of the guarantee. A comparison of these figures with those of previous years is shown in Table I.

Resolution 16, p. 14 of the Official Publication of the Association of American Feed Control Officials, reads in part "that urea is to be used only in such limited quantities as to insure the total amount present shall not exceed 3% of the (grain) ration." Seven brands contained urea as one of the ingredients. None exceeded the 3 per cent urea permitted under the resolution.

All the 48 states have feedingstuff laws. All publish an inspection report. About one-half the states indicate by different type those brands which fail by an arbitrary tolerance to conform to the guarantee. There is no common agreement what this tolerance should be. In this bulletin the analytical figures one-half per cent or more below guarantee in protein, one-fourth per cent or more below guarantee in fat, and one per cent or more above guarantee in crude fiber are printed in bold-face type. The object of the bold-face type is to make it easier for the purchaser to see which brands do not come within this tolerance.

TABLE I. PERCENTAGE OF SAMPLES ANALYZED IN YEARS 1926-1949 NOT CONFORMING TO GUARANTEES

Year	Per cent below guarantee in Protein		Per cent below guarantee in Fat		Per cent high in Crude Fiber
	Less than 0.5 per cent	0.5 per cent or more	Less than 0.25 per cent	0.25 per cent or more	
1926	8.0	16.0	4.0	10.0	6.0
1927	8.3	16.4	5.8	13.6	5.9
1928	9.1	20.7	4.3	9.3	7.9
1929	9.5	20.2	2.8	9.3	6.5
1930	4.8	13.1	4.0	8.0	3.9
1931	1.8	7.2	5.9	9.7	5.3
1932	1.8	1.4	5.0	8.1	2.8
1933	1.3	3.6	7.5	9.8	3.6
1934	3.0	3.4	3.9	7.1	9.8
1935	2.4	3.0	4.2	8.5	9.9
1936	2.9	5.2	5.5	8.3	12.2
1937	2.8	4.2	3.0	6.0	11.0
1938	2.9	8.1	9.8	10.8	11.5
1939	1.9	3.3	6.8	9.3	8.7
1940	2.9	4.0	6.2	6.7	7.5
1941	1.1	2.6	4.7	6.7	5.6
1942	2.6	3.5	3.7	4.5	7.4
1943	3.7	2.7	7.7	8.6	7.4
1944	8.2	9.0	10.7	19.7	6.9
1945	2.1	6.1	2.9	7.5	7.1
1946	8.6	17.5	2.3	8.9	14.6
1947	4.1	10.2	1.7	4.0	24.7
1948	3.6	3.8	2.3	3.5	13.6
1949	3.5	5.8	2.7	2.8	7.2

REQUEST BY INDIVIDUALS FOR THE ANALYSIS OF FEEDINGSTUFFS

The feedingstuff law requires the Agricultural Experiment Station to analyze only samples of registered feedingstuffs drawn under the direction of the Feed Control Supervisor. It does, each year, however, analyze a considerable number of samples drawn by individuals representing stock purchased by them for their own use. Frequently, the reason for requesting an analysis is that the feed is suspected of causing sickness or death of livestock or poultry. While in very rare instances the feed may have caused the trouble, disease is usually found to be the cause. Often feeders, suspecting the feed, lose valuable time in the treatment of the disease by sending a sample of the feed for analysis and waiting for the report. Losses could have been reduced had a veterinarian or poultry specialist been consulted immediately and proper treatment given promptly. The most conclusive method of determining whether or not the feed is the cause of the trouble is a biological test. Such a test can be conducted on the premises of the feeder. If the feed is suspected, confine in sanitary pens two lots of healthy chicks. Give to one lot the suspected feed and to the other lot a feed known to be good. Should the chicks receiving the suspected feed become ill and the others remain healthy, there is evidence that the feed is the cause. Under such circumstances, notify the Feed Control Supervisor and an official sample will be drawn. The official sample will be analyzed to determine if the manufacturer is responsible.

The most common reason the purchaser has for asking to have the sample analyzed is to satisfy himself whether or not the feed meets its guarantee, and if it does not, to obtain evidence upon which to base a claim for shortage. The Station can assume no responsibility for the drawing of an unofficial sample but can attest only the accuracy of the analysis of the sample as submitted. It is practically impossible to secure a representative sample of a feedingstuff composed of several ingredients varying widely in composition without the aid of a sampling tube for drawing the sample and proper equipment for mixing it. A feed may contain as one of its ingredients gluten meal averaging 40 per cent protein, and as another ingredient oat mill feed averaging 5 per cent protein. These materials are so different in physical condition that the shaking in transit tends to separate them even though they may have been perfectly mixed by the manufacturer before bagging. It is apparent that an accurate sample of a shipment of a feed can only be had by drawing a core from several bags. Since a representative sample is as essential as an accurate analysis in judging the value of a shipment of feed, it is evident that a satisfactory adjustment can seldom be effected on the basis of an unofficial sample.

Notwithstanding the objections which may be raised to the analysis of samples taken without proper sampling equipment, the Station is disposed to continue this work as long as there is evidence that it constitutes a useful service. The samples so submitted should be drawn from at least ten bags in a manner which will insure that the small lot sent for analysis is as accurately representative as possible

of the large lot from which it is taken. Because of the cost of laboratory work and materials, an analysis is not usually warranted on a sample drawn from less than a one-ton lot of feed.

A one-pound sample is sufficient for the analysis. It should be sent in a glass jar or tin box to prevent loss of fine particles and a change in the moisture content. In order that the department may have a record of the sample analyzed, and may know whether or not the manufacturer and the dealer are complying with the requirements of the law, the following information should be submitted concerning each sample.

Brand .....

Manufacturer .....

Address .....

Guarantee:

Protein .....

Fat .....

Crude Fiber .....

Ingredients .....

.....

.....

Dealer .....

Address .....

Number of bags in lot .....

Number of bags sampled .....

Price per 100 pounds .....

Your name .....

Your address .....

Your reason for requesting analysis .....

.....

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Abilene Alfalfa Sales Co. **Abilene, Kansas**						
Pasturettes	17.00	19.30	1.50	3.24	27.00	22.65
Acme-Evans Co., Inc. **Indianapolis, Indiana**						
Acme Hominy	9.00	10.02	7.00	7.10	6.00	3.80
Acme Wheat Standard Middlings with Screenings	14.00	14.58	3.00	3.92	9.50	8.04
Albers Milling Co. **Peoria, Illinois**						
Albers Calf Manna	25.00	28.41	4.00	4.75	5.50	4.06
E. T. Allen Co. **Atlanta, Georgia**						
Empire 41% Protein Cottonseed Meal Prime Quality	41.00	42.25	5.50	6.55	13.00	10.91
Allied Mills, Inc. **Chicago, Illinois**						
Economy Laying Mash	18.00	20.66	3.00	4.11	8.00	8.36
June Pasture	10.00	14.76	0.50	0.80	26.00	18.40
Wayne All Mash Egg	15.00	16.77	2.50	4.42	8.00	8.42
Wayne All Mash Grower	15.00	17.03	2.50	4.71	8.00	7.02
Wayne Breeder Mash	20.00	20.58	3.00	4.76	8.00	7.66
Wayne Calf Starter	16.00	17.74	3.00	3.78	11.00	8.14
Wayne Chick and Broiler Ration	20.00	20.88	3.00	4.91	8.00	6.55
Wayne Chick Starter	20.00	21.32	3.00	4.33	7.00	5.46
Wayne Complete Calf Starter	16.00	17.29	3.00	3.51	11.00	7.90
Wayne 16% Dairy Feed	16.00	18.65	3.00	4.08	13.00	11.07
Wayne 16% Dairy Ration	16.00	18.65	3.00	4.42	10.00	7.94
Wayne 20% Dairy Ration	20.00	22.02	3.00	4.22	10.00	9.50
Wayne Dog Food Blox	22.00	24.78	4.00	5.46	5.00	4.13
Wayne Egg Mash	20.00	21.89	3.00	4.51	8.00	7.35
Wayne Fitting Ration	12.00	14.75	3.00	4.04	10.00	6.98
Wayne Growing Mash	18.00	19.74	2.50	4.38	8.00	8.58
Wayne Horse Feed	9.00	9.98	2.50	3.02	12.00	5.16
Wayne 26% Mash Supplement	26.00	26.66	3.00	4.35	10.00	9.54
Wayne Mink Meal	22.00	22.68	4.00	5.16	7.00	7.63
Wayne 16% National Dairy Feed	16.00	17.03	4.00	4.20	10.00	7.22
Wayne 20% National Dairy Feed	20.00	22.51	4.00	4.01	10.00	7.16
Wayne Pork Maker	14.00	15.02	3.00	4.16	8.00	6.82
Wayne Ranch Meal	17.00	17.55	3.50	5.20	7.50	8.97
Wayne Sugarine 20% Dairy Ration	20.00	23.29	3.00	5.84	12.00	6.86
Wayne Super Broiler Feed	22.00	23.55	3.50	5.23	4.50	3.74
Wayne Turkey Breeder Mash	22.00	23.60	3.00	4.48	10.00	6.96
Wayne Turkey Growing Mash	20.00	20.70	3.00	3.65	8.00	7.45
American Maize Products Co. **Roby, Indiana**						
Cream of Corn Gluten Feed	23.00	22.77	2.00	4.05	9.50	7.35
Archer-Daniels-Midland Co. **Minneapolis, Minnesota**						
Archer Quality Old Process 32% Linseed Oil Meal	32.00	33.40	3.50	4.69	9.00	8.65
Archer Quality Old Process 34% Protein Linseed Oil Meal	34.00	34.94	3.50	3.87	9.00	8.05

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Ashcraft-Wilkinson Co. Atlanta, Georgia						
Cow-Eta Brand 41% Protein Cottonseed Meal	41.00	41.85	5.00	5.55	13.00	10.49
Hi-Pro Brand Prime Peanut Meal 41%	41.00	41.25	6.00	6.03	16.00	20.11
E. W. Bailey & Co. Montpelier, Vermont						
Bailey's Pennant Brand Breeder Mash	20.00	21.76	3.50	4.69	7.00	6.59
Bailey's Pennant Brand Calf Ration	15.00	16.94	3.00	4.08	8.50	6.98
Bailey's Pennant Brand Chick Starter	20.00	21.50	3.50	4.26	7.00	5.98
Bailey's Pennant Brand Complete Breeder	16.00	19.22	3.50	4.90	7.00	7.52
Bailey's Pennant Brand Complete Egg Ration	16.00	16.24	3.50	4.00	7.50	7.25
Bailey's Pennant Brand Complete Egg Ration	16.00	17.04	3.50	5.17	7.50	7.65
Bailey's Pennant Brand Complete Grower	15.00	15.72	3.50	4.18	7.50	8.06
Bailey's Pennant Brand 16% Dairy Ration	16.00	17.69	3.50	3.07	10.00	7.05
Bailey's Pennant Brand 18% Dairy Ration	18.00	21.28	3.50	3.53	9.00	6.76
Bailey's Pennant Brand 20% Dairy Ration	20.00	21.98	3.50	3.52	8.00	6.84
Bailey's Pennant Brand Dog and Puppy Ration	24.00	27.28	4.00	5.39	4.00	2.94
Bailey's Pennant Brand Favorite Dairy Ration	20.00	20.40	3.75	3.77	8.50	7.44
Bailey's Pennant Brand Fitting Ration	14.00	14.93	3.50	3.88	11.00	8.61
Bailey's Pennant Brand Flushing Mash	17.00	17.90	3.00	2.71	6.00	5.78
Bailey's Pennant Brand Freshening Ration	10.00	12.08	1.50	3.83	15.00	10.80
Bailey's Pennant Brand Goat Ration	16.00	15.11	3.50	3.79	10.00	6.74
Bailey's Pennant Brand Growing Mash	18.00	20.05	3.50	4.29	7.50	7.08
Bailey's Pennant Brand Horse Feed	10.50	13.36	3.00	3.52	9.00	6.88
Bailey's Pennant Brand Laying Mash	20.00	21.10	3.50	4.35	7.50	6.69
Bailey's Pennant Brand Pig Feed	17.00	17.12	3.50	3.67	7.00	7.11
Bailey's Pennant Brand Provender	10.00	9.76	3.50	3.89	8.00	4.94
Bailey's Pennant Brand Rabbit Pellets	16.00	20.57	3.00	4.94	12.00	7.42
Bailey's Pennant Brand Stock Feed	9.50	11.91	3.00	3.29	13.00	10.99
Bailey's Pennant Brand Succulent Feed	10.00	11.60	2.00	3.29	17.00	15.91
Bailey's Pennant Brand Super Pellets	24.00	27.36	3.00	3.68	7.00	7.10
Bailey's Pennant Brand 32% Supplement	32.00	30.92	4.00	4.60	6.00	8.12
Bailey's Pennant Brand Turkey Fattener	18.00	18.70	3.50	5.57	6.00	6.58
Bailey's Pennant Brand Turkey Grower	20.00	20.45	3.50	4.54	7.00	7.59
Bailey's Pennant Brand Yankee 16	16.00	14.93	3.50	3.77	13.00	11.24
Bailey's Pennant Brand Yankee 20 Dairy Ration	20.00	22.55	3.50	3.64	14.00	11.83
Quality 16% Dairy Ration	16.00	18.56	3.50	3.93	8.00	7.09
Quality 20% Dairy Ration	20.00	21.27	3.50	4.32	8.00	7.51

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Beacon Milling Co., Inc. Cayuga, New York						
Auburn "16"	16.00	18.60	3.00	4.28	10.00	5.64
Be-Co-Lass	11.00	11.78	1.00	2.97	16.00	10.17
Beacon "20"	20.00	21.54	3.50	4.05	9.00	6.94
Beacon "24" for Mixing with Home Grains	24.00	26.35	3.50	4.35	9.00	6.52
Beacon Breeders Mash	22.00	22.90	3.50	5.69	7.50	6.68
Beacon Broiler Feed	24.00	24.48	4.00	4.44	5.00	4.44
Beacon C-C Pellets	15.00	15.15	1.00	11.20	5.00	3.86
Beacon Complete Starting Ration	25.00	25.75	3.50	5.56	6.00	4.30
Beacon Dairy Fitting	14.00	14.06	3.50	3.82	9.00	7.45
Beacon "22" Egg Mash	22.00	23.99	3.50	4.23	7.00	6.35
Beacon Fleshing Pellets	20.00	21.14	3.50	3.84	7.00	6.67
Beacon Goat Ration	16.00	17.42	3.50	3.71	10.00	7.32
Beacon "18" Growing Mash	18.00	19.79	3.50	4.80	7.00	6.03
Beacon Poultry Fitting	12.00	12.39	3.00	3.83	7.50	5.97
Beacon Sulfaquinoxaline Complete Starter	25.00	25.57	3.50	4.60	4.50	3.65
Beacon Sweet "20"	20.00	20.53	3.00	4.88	9.00	7.01
Beacon Test Cow Ration	18.00	19.00	4.00	4.51	9.00	7.45
Beacon Turkey and Game Bird Fitting	10.00	11.47	3.00	3.94	9.00	5.50
Beacon Turkey and Game Bird Flushing Mash	15.00	16.46	1.00	9.56	5.00	4.44
Beacon Turkey and Game Bird Grower	22.00	22.68	3.50	3.84	7.00	5.83
Black Rock Milling Corp. Black Rock, New York						
Economy 18% Dairy Ration	18.00	20.32	2.50	3.27	12.00	9.47
Blatchford Calf Meal Co. Waukegan, Illinois						
Blatchford Calf Meal	25.00	26.14	3.50	4.28	6.00	5.64
Blatchford Complete Calf Ration	19.50	20.36	3.00	3.59	9.50	10.48
Borden Co. New York, New York						
Flaydry	35.00	37.82	0.50	2.24	6.00	5.31
Brown Oil & Chemical Corp. New York, New York						
Brown Oil and Chemical Corp. Brand 34% O. P. Linseed Meal	34.00	35.60	4.50	5.60	10.00	9.00
Canada and Dominion Sugar Co., Ltd. Chatham, Canada						
Dominion Dried Beet Pulp	7.00	8.32	0.30	0.72	22.50	19.41
Central Soya Company, Inc. Fort Wayne, Indiana						
Central 41% Protein Expeller Soybean Oil Meal	41.00	45.44	3.50	4.54	7.00	5.60
Clinton Industries, Inc. Clinton, Iowa						
Clinton Corn Gluten Feed	23.00	23.47	2.00	2.33	8.50	7.98

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Commander Larabee Milling Co. Minneapolis, Minnesota						
Sunfed Red Dog Pure Wheat Products	16.00	18.30	4.00	3.60	4.00	2.39
Sunfed Wheat Bran with Ground Wheat Screenings	14.00	15.20	4.00	5.02	12.00	8.85
Sunfed Wheat Standard Middlings with Ground Wheat Screenings	15.00	18.30	4.00	5.12	9.50	8.10
Consolidated Rendering Co. Boston, Massachusetts						
Corenco Feeding Bone Meal	10.00	10.07	....	....	....	....
Corenco Fish Meal	60.00	55.63	5.00	15.19	....	....
Corenco 47% Meat and Bone Scrap	47.00	46.60	6.00	9.14	....	....
Corenco 47% Meat and Bone Scrap	47.00	47.15	6.00	9.20	....	....
Corenco 50% Meat and Bone Scrap	50.00	48.16	6.00	9.31	....	....
Corenco 50% Meat and Bone Scrap	50.00	45.44	6.00	9.92	....	....
Corn Products Refining Co. New York, New York						
Buffalo Brand Corn Gluten Feed	23.00	24.26	1.00	2.12	9.00	8.40
Diamond Brand Corn Gluten Meal	41.00	44.43	1.00	1.45	6.00	1.80
Charles M. Cox Co. Boston, Massachusetts						
Provender	9.00	9.50	3.00	4.02	8.00	4.79
Utility 16 Dairy Ration	16.00	17.21	2.50	3.03	12.00	9.77
Utility 20 Dairy Ration	20.00	21.67	3.00	2.64	11.00	10.43
Wirthmore Breeder Mash	20.00	22.59	3.00	4.45	7.00	6.48
Wirthmore Calf Starter Meal	22.00	25.26	3.50	4.78	7.00	6.28
Wirthmore Calving Ration	14.00	16.64	4.00	4.11	11.00	8.94
Wirthmore Complete Breeder Ration	15.00	16.90	3.00	4.55	6.00	4.97
Wirthmore Complete Egg Ration	15.00	15.37	3.00	4.69	6.00	5.12
Wirthmore Complete Growing	14.50	15.76	3.00	4.67	6.00	5.82
Wirthmore 16 Dairy Ration	16.00	18.91	3.50	4.40	9.00	7.10
Wirthmore 20 Dairy Ration	20.00	20.44	3.50	4.51	8.00	6.72
Wirthmore Dairy Succulent	9.00	11.60	2.50	3.04	14.00	12.23
Wirthmore 32 Dairy Supplement	32.00	33.19	3.00	3.74	8.00	6.34
Wirthmore Dog Food	25.00	27.01	4.00	5.86	6.00	4.01
Wirthmore Fattening Pellets	15.00	17.20	3.50	4.07	6.00	4.87
Wirthmore 14 Fitting Ration	14.00	15.98	4.00	4.44	9.00	7.17
Wirthmore Fodder Greens	9.00	9.02	2.50	2.23	14.00	11.20
Wirthmore Growing Mash	18.00	18.34	3.00	3.89	7.00	5.67
Wirthmore Hi-Ener-G Starter and Broiler	20.00	22.15	3.00	3.52	4.50	4.36
Wirthmore Horse Feed	10.00	12.65	3.25	4.00	9.00	7.61
Wirthmore Laying Mash	20.00	21.10	3.00	3.98	7.00	6.18
Wirthmore Mash with Sulfaguanidine	20.00	21.50	3.00	3.30	6.50	5.44
Wirthmore Pig and Hog Feed	17.00	17.73	4.00	4.71	8.00	7.12
Wirthmore Poultry Flush	15.00	17.12	3.00	2.88	6.00	5.12
Wirthmore Rabbit Pellets	14.00	16.77	3.00	4.52	12.00	9.78
Wirthmore 16 Record Ration	16.00	17.95	3.50	4.58	9.00	7.54
Wirthmore 20 Record Ration	20.00	20.49	3.50	4.26	9.00	7.77
Wirthmore Sheep and Goat Ration	16.00	15.26	4.00	3.36	8.00	5.67
Wirthmore Starter and Broiler Ration	20.00	22.72	3.00	3.69	6.50	4.89
Wirthmore Stock Feed	10.00	12.52	3.00	4.41	11.00	8.99
Wirthmore Sulfaquinoxaline Mixture with Wirthmore Starter and Broiler Ration	20.00	21.75	3.00	3.92	6.50	5.04

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Charles M. Cox Co. (Concluded)						
Wirthmore Super Pellets	20.00	21.93	3.00	4.08	8.00	6.40
Wirthmore Turkey Fattening Pellets	16.00	17.34	3.00	4.11	7.00	5.26
Wirthmore Turkey Growing Ration	20.00	22.38	3.00	4.07	7.50	6.54
Wirthmore Turkey Starting Ration	25.00	27.89	3.00	3.70	7.00	6.55
Wirthmore Twin-Mix Calf Ration	16.00	20.14	4.00	4.42	8.00	6.42
Crete Mills						
Crete, Nebraska						
White Hominy Feed	10.00	10.64	5.00	6.73	6.00	4.13
Crookston Milling Co.						
Crookston, Minnesota						
Fine Wheat Middlings and Ground Wheat Screenings	14.00	15.76	4.00	5.44	9.00	6.44
Dawe's Manufacturing Co.						
Chicago, Illinois						
Dawe's Vitamelk Base	34.00	38.22	3.00	5.06	6.00	4.99
Delaware Mills, Inc.						
Deposit, New York						
Delaware Breeder Mash	21.00	21.84	3.00	4.86	7.00	6.42
Delaware Calving Ration	14.00	16.68	3.00	3.71	11.00	8.36
Delaware Complete Growing Mash	15.00	19.44	3.00	4.20	7.00	6.99
Delaware Complete Laying Mash	15.00	16.81	3.00	4.10	8.00	7.44
Delaware Growing Mash	18.00	20.57	3.00	4.00	8.00	6.88
Delaware Laying Mash	21.00	21.02	3.00	4.36	7.00	6.45
Delaware Milk Flushing Mash	12.00	12.08	2.00	2.61	6.00	3.89
Delaware Starter and Broiler Ration	20.00	20.53	3.00	3.62	8.00	6.40
Delaware Sulfaquinoxaline Mixture in Delaware Starter and Broiler Ration	20.00	20.66	3.00	4.29	6.00	4.89
Delaware Sweet 20% Dairy Feed	20.00	20.97	3.50	4.01	10.00	6.57
Delaware 16% Test Ration	16.00	16.51	4.50	4.13	8.00	6.60
Delaware Test Ration	18.00	19.00	4.50	3.75	8.00	5.99
Dietrich & Gambrill, Inc.						
Frederick, Maryland						
All Purpose Mash	15.00	17.21	3.50	3.78	8.00	6.63
Frederick 20% Dairy	20.00	19.03	3.50	3.59	12.00	9.30
Pen Mar 16% Dairy	16.00	17.91	3.50	4.20	10.00	7.93
Pen Mar 20% Dairy	20.00	20.18	3.50	4.05	10.00	8.39
Pig and Hog Meal	18.00	19.66	3.50	4.05	8.00	7.89
Dodge Grain Co.						
Methuen, Massachusetts						
Dodge Starting Growing Mash	16.00	17.82	4.00	4.17	10.00	9.22
Eastern States Farmers' Exchange, Inc.						
West Springfield, Massachusetts						
Eastern States All Mash Breeder Pellets	15.50	16.24	3.00	4.10	6.00	4.22
Eastern States All Mash Developer	15.50	17.04	3.00	4.23	7.00	5.54
Eastern States All Mash Producer Pellets	15.50	17.69	3.00	3.92	6.00	4.47

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Eastern States Farmers' Exchange (Concluded)						
Eastern States Breeder Concentrate Pellets	20.00	20.84	3.50	5.30	7.50	5.81
Eastern States Breeder Mash Pellets	20.00	22.28	2.50	4.65	7.00	5.78
Eastern States Calf Starter	23.00	22.71	3.50	4.05	7.00	5.15
Eastern States Calving Ration	11.50	12.83	2.00	2.20	18.00	13.69
Eastern States Developer	20.00	22.72	2.50	4.35	8.00	5.88
Eastern States Dog Feed Pellets	24.00	25.08	4.00	5.07	4.50	3.64
Eastern States Fitting Ration	14.00	14.76	3.00	3.29	9.00	6.90
Eastern States Flushing	18.50	19.92	2.00	3.07	5.00	3.69
Eastern States Fulpail	20.00	23.60	3.50	4.04	8.50	7.35
Eastern States Highland 16	16.00	17.16	2.50	3.87	12.00	11.41
Eastern States Hog Supplement	36.00	38.52	3.50	3.70	9.00	7.42
Eastern States Horse Feed	10.50	11.12	3.50	3.90	8.00	5.64
Eastern States Milkmore	16.00	18.01	3.50	3.99	8.50	6.93
Eastern States Minuteman—WS	20.00	21.58	3.00	3.74	5.50	4.20
Eastern States Pacemaker	20.00	20.84	3.00	3.88	4.00	2.74
Eastern States Pacemaker—WS	20.00	20.92	3.00	5.26	4.00	2.72
Eastern States Pig Starter and Breeder	20.00	20.58	3.00	3.76	7.50	6.64
Eastern States Pork Builder	15.00	15.37	3.00	3.71	5.50	4.17
Eastern States Producer	20.00	20.05	3.00	3.84	6.50	4.85
Eastern States Sheep and Goat	16.00	15.91	3.50	3.94	8.00	5.83
Eastern States 32% Supplement	32.00	33.40	4.00	3.94	8.00	7.02
Eastern States Sweepstakes	16.00	18.34	3.50	4.10	8.00	6.21
Eastern States Turkey Grower	20.00	20.66	2.50	3.63	7.00	5.94
Eastern States Turkey Starter	25.00	26.40	2.50	3.74	5.50	3.84
Eckhart Milling Co. Chicago, Illinois						
Ecko Pure Wheat Bran	14.00	15.15	3.50	4.31	12.00	9.60
Elk Valley Alfalfa Mills Independence, Kansas						
E. V. 17% Fine Ground Dehydrated Alfalfa Meal	17.00	18.04	1.75	2.75	27.00	25.90
Elm City Grain Co. Keene, New Hampshire						
Elm Tree All Mash Breeder	16.00	17.17	3.50	4.88	8.00	6.44
Elm Tree All Mash Laying	16.00	16.77	3.50	4.48	8.00	6.21
Elm Tree Breeder Mash	20.00	19.86	4.00	4.86	8.00	6.52
Elm Tree Chick Starter	20.00	18.16	4.00	3.45	8.00	6.68
Elm Tree Dairy Feed	18.00	18.44	3.50	4.05	11.00	8.45
Elm Tree 14% Fitting Ration	14.00	13.29	3.50	3.92	11.00	7.52
Elm Tree Laying Mash	19.00	20.05	3.50	4.40	9.00	7.30
Elm Tree Pig and Hog Feed	14.00	12.98	4.00	4.19	10.00	6.65
Elmore Milling Co., Inc. Oneonta, New York						
Elmore Breeder Mash	20.00	20.53	4.00	4.80	8.00	6.66
Elmore Bull Feed	13.00	18.43	3.50	3.52	9.00	7.53
Elmore Chixsaver	20.00	24.65	4.00	4.43	6.00	5.45
Elmore Complete Broiler Ration	20.00	17.78	4.00	4.04	7.00	6.76
Elmore Complete Growing Ration	15.00	17.04	3.50	5.32	8.00	8.87
Elmore Complete Layer and Breeder	15.00	16.99	4.00	4.25	8.00	7.55

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Elmore Milling Co., Inc. (Concluded)						
Elmore Complete Market Egg Mash	15.00	17.69	3.50	5.34	8.00	6.97
Elmore Complete Rabbit Ration	16.00	18.96	3.50	4.08	10.00	10.29
Elmore Dry and Freshening Ration	12.00	14.67	3.25	3.52	9.00	7.19
Elmore Dry and Freshening Ration	12.00	18.60	3.25	3.65	10.00	7.52
Elmore Egg Mash	20.00	17.84	4.00	5.51	8.00	7.84
Elmore Flaked Pelleted Calf Starter	18.00	15.72	2.50	4.00	8.00	7.04
Elmore Grand Champion Ration	15.00	17.12	3.50	3.82	9.00	7.40
Elmore Grand Champion Ration	15.00	16.24	3.50	3.80	10.00	6.94
Elmore Growing Mash	18.00	20.62	3.50	4.76	8.00	6.59
Elmore Hog Ration	15.00	16.20	4.00	4.96	8.00	6.02
Elmore Horse Feed	9.00	10.85	2.50	3.64	11.00	6.54
Elmore Milk Grains "Twenty"	20.00	22.77	4.50	4.82	9.00	7.30
Elmore Rabbit Concentrate Pellets	30.00	31.57	3.50	3.83	8.00	7.38
Elmore Stock Feed	10.00	11.03	3.00	3.48	12.00	10.24
Elmore Test Ration	18.00	17.43	4.00	3.86	9.00	6.46
Elmore Turkey Fitting Ration	12.00	13.97	3.00	2.95	10.00	5.88
Elmore Turkey Growing Mash	20.00	23.16	4.00	3.84	8.00	6.97
John W. Eshelman & Sons Lancaster, Pennsylvania						
Eshelman Red Rose Breeder Mash	20.00	23.60	4.00	4.18	6.50	5.81
Eshelman Red Rose Chick Starter	20.00	20.49	3.50	5.32	6.50	5.59
Eshelman Red Rose Complete Calf Grower	14.00	21.54	3.50	5.51	8.00	6.22
Eshelman Red Rose 14 Dairy Feed	14.00	15.33	4.00	4.71	9.00	7.44
Eshelman Red Rose 16 Dairy Feed	16.00	18.55	4.00	4.80	11.00	7.58
Eshelman Red Rose Dog and Puppy Food	23.00	25.65	4.75	4.99	4.00	3.39
Eshelman Red Rose Fitting Ration	12.00	14.23	3.50	3.86	7.00	7.24
Eshelman Red Rose Growing Mash	18.00	22.72	3.50	4.24	7.50	6.54
Eshelman Red Rose Horse Feed	9.00	10.42	3.00	3.98	10.00	5.90
Eshelman Red Rose Laying Mash Pellets	20.00	23.12	3.50	4.41	7.50	7.01
Eshelman Red Rose 32 Mixing Ration	32.00	34.55	4.00	4.23	9.00	8.22
Eshelman Red Rose Rabbit Feed Pelleted	14.00	14.41	3.50	4.56	12.00	9.86
Eshelman S-O-S	11.00	14.41	2.00	2.90	15.00	15.46
Farmers Feed Co. New York, New York						
Bull Brand Dried Brewers Gains	26.00	26.84	6.00	7.04	17.00	15.43
Federal Mills, Inc. Lockport, New York						
Dairy Maid Soft Winter Wheat Bran	13.00	12.41	3.00	3.94	13.00	10.29
Dairy Maid Wheat Flour Middlings with Ground Wheat Screenings	13.00	15.20	3.00	4.99	6.00	5.01
Dairy Maid Wheat Mixed Feed	13.00	15.06	3.50	4.16	8.50	8.47
Lucky Hard Wheat Bran	14.00	17.12	3.50	5.35	12.00	9.63
Lucky Wheat Red Dog	14.00	15.72	2.50	2.78	4.00	1.42
Fowler Brothers Suncook, New Hampshire						
Fowler's 20% Baby Chick Starter	20.00	23.25	3.50	4.38	7.50	6.27
Fowler's 20% Breeder Mash	20.00	20.22	4.00	5.10	8.00	5.86
Fowler's 16% Complete Breeder Mash	16.00	16.94	4.00	4.68	7.00	6.14

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Fowler Brothers (Concluded)						
Fowler's 14% Pig and Hog Feed	14.00	14.01	3.50	4.01	12.00	6.73
Fowler's Sun Valley 16% Dairy Feed	16.00	16.99	3.50	4.06	10.00	9.09
Sun Valley All Mash Breeder	16.00	16.64	4.00	4.76	7.50	5.69
Sun Valley Breeder Mash	20.00	20.40	4.00	5.37	7.50	5.81
Sun Valley Chick Starter	20.00	20.75	4.00	4.78	7.00	5.67
Sun Valley Dairy Ration	16.00	16.07	3.50	3.86	10.00	8.21
Sun Valley Pig and Hog Feed	14.00	14.80	3.50	4.31	10.00	8.31
Sun Valley Super Broiler Ration ...	20.00	20.88	4.50	5.18	4.00	3.99
General Foods Corporation New York, New York						
Gaines Meal for Dogs	25.00	**23.56**	6.50	8.15	5.00	3.32
General Mills, Inc. Minneapolis, Minnesota						
Ben Hur Wheat Standard Middlings and Ground Wheat Screenings	15.00	15.01	4.00	4.36	9.50	7.09
Dried Beet Pulp	7.00	8.49	0.30	0.49	22.50	19.68
Farm Service Laying Mash	20.00	20.71	3.50	4.86	8.50	5.64
Larro Broiler Feed	20.00	20.88	3.50	4.28	7.00	6.21
Larro Calf Builder	24.00	25.13	3.50	3.88	6.50	3.94
Larro 32% Cattle Supplement	32.00	33.10	2.50	3.12	10.00	8.69
Larro Chick Builder	20.00	20.93	3.50	3.43	7.00	5.80
Larro 16% Dairy Feed	16.00	17.69	3.00	4.28	12.00	9.28
Larro 20% Dairy Feed	20.00	20.80	3.00	3.77	12.00	7.97
Larro Egg Mash	20.00	21.36	3.50	3.62	8.00	6.21
Larro Green Pellets for Rabbits	15.00	16.34	2.00	3.20	19.00	16.12
Larro Mash Concentrate	32.00	34.80	3.50	3.62	7.50	6.40
Larro Poultry Breeder Mash	20.00	20.10	3.50	3.70	8.00	6.40
Larro Sow and Pig Builder	17.50	19.79	3.50	4.20	8.00	6.58
Larro Turkey Breeder Mash	20.00	20.84	3.50	4.21	8.00	6.70
Larro Turkey Builder	24.00	27.19	3.50	3.54	8.00	6.79
Larro Turkey Finisher	27.00	27.76	3.50	3.36	7.50	7.63
Vigor Laying Mash	18.00	20.71	3.00	4.72	11.00	9.50
Washburn's Gold Medal Hard Wheat Adrian Red Dog	16.00	17.34	3.50	3.85	4.00	2.32
Washburn's Gold Medal Hard Wheat Bran and Ground Wheat Screenings	14.00	15.59	3.50	4.73	12.00	9.88
Washburn's Gold Medal Hard Wheat Standard Middlings and Ground Wheat Screenings	15.00	15.85	4.00	4.44	9.50	7.54
Glidden Company Indianapolis, Indiana						
Glidden Super Broiler Ration	22.00	24.56	3.00	4.04	4.00	3.15
Gorton-Pew Fisheries Co. Gloucester, Massachusetts						
Gorton's AL-FISH Blend "Junior" ..	40.00	41.46	6.00	7.37	7.00	6.09
D. H. Grandin Milling Co. Jamestown, New York						
Chautauqua 20 Dairy Feed	20.00	20.97	3.00	3.41	12.00	9.13
Chautauqua Egg Mash	18.00	21.02	3.00	3.93	9.00	7.46
Grandin's All Mash Layer	15.00	15.10	3.00	3.92	8.00	7.65
Grandin's Complete Chick Starter ..	20.00	21.32	3.00	3.80	8.00	5.76

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
D. H. Grandin Milling Co. (Concluded)						
Grandin's 14 Fitting Ration	14.00	14.27	3.50	4.26	10.00	7.41
Grandin's Fleshing Pellets	15.00	15.98	3.50	3.70	8.00	6.74
Grandin's Hi-Pro Pellets	20.00	21.50	3.00	3.86	8.00	7.99
Grandin's Horse Feed	9.50	10.64	3.50	3.96	11.00	6.46
Grandin's Laying Mash	20.00	21.10	3.00	3.66	8.00	7.34
Grandin's 16 Milk Maker	16.00	15.65	3.50	4.18	10.00	8.04
Grandin's 20 Milk Maker	20.00	19.52	3.50	3.97	10.00	8.12
Grandin's Rabbit Pellets	14.00	14.50	2.00	3.66	18.00	10.32
Grandin's Start-To-Finish Mash	20.00	20.36	3.00	4.59	8.00	7.68
Grandin's Stock Feed	9.00	11.86	3.50	3.68	12.00	9.78
Grandin's Succulent Feed	9.00	10.07	1.00	2.26	19.00	16.64
Grandin's Super Starter and Broiler Ration	20.00	20.05	3.00	3.79	4.50	3.12
Ground Corn and Oats	9.00	11.55	4.00	6.34	11.00	6.71
Hales and Hunter Co. Chicago, Illinois						
College 16 Dairy	16.00	18.69	3.00	3.50	10.00	7.37
Pioneer Calf Starter	18.00	20.36	2.50	4.18	10.00	5.56
Pioneer 15 Dairy	15.00	17.20	3.00	4.72	9.00	6.76
Pioneer Dairy Sup-Pel	18.00	25.78	3.00	5.15	9.00	6.38
Pioneer Dry and Freshening	12.00	13.58	2.50	3.98	10.00	8.30
Pioneer Pelleted Flaked 15 Dairy	15.00	15.37	3.00	3.63	9.00	6.56
Henkel Flour Mills Detroit, Michigan						
Henkel's Wheat Standard Middlings with Ground Wheat Screenings	14.00	15.20	3.00	4.57	9.50	6.62
Hood Mills Co. Baltimore, Maryland						
Hood's Pulverized Grains	12.00	13.00	2.00	2.92	14.00	14.52
H. P. Hood & Sons Boston, Massachusetts						
Powdered Skim Milk	32.00	28.84	0.75	8.07	....	....
E. C. & W. L. Hopkins, Inc. Greenfield, New Hampshire						
Connecticut Broiler Mash	20.00	20.97	4.00	6.35	3.00	2.68
Granite State Breeder Mash	20.00	21.45	3.00	4.62	7.50	7.17
Granite State Calf Meal	19.00	18.17	3.50	4.13	5.00	6.47
Granite State Complete Breeder Mash (Pellets)	15.00	16.77	3.00	4.76	7.00	7.58
Granite State Complete Mash	15.00	16.29	3.00	4.67	7.00	6.89
Granite State 20% Dairy Feed	20.00	21.23	4.00	4.80	10.00	7.66
Granite State Egg Mash	20.00	20.14	4.00	4.52	7.50	7.48
Granite State Fitting Ration	14.00	13.70	3.00	3.96	8.00	6.99
Granite State Hog Ration	17.50	18.13	3.00	4.19	7.00	6.69
Granite State Horse Feed	10.00	10.77	4.00	3.67	8.00	5.22
Granite State Stock Feed	9.00	8.28	4.00	4.47	10.00	9.67
Page 16% Dairy	16.00	17.30	4.00	4.25	9.00	7.24
Page Dairy	20.00	20.36	4.00	4.23	9.00	7.35
Provender	11.00	11.01	4.00	4.94	10.00	5.20

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Humphreys-Godwin Co. **Memphis, Tennessee**						
Dixie Brand Cottonseed Meal	41.00	41.38	5.00	6.04	12.00	10.32
International Milling Co. **Minneapolis, Minnesota**						
Blackhawk Wheat Bran with Ground Wheat Screenings not exceeding 8%	15.00	15.76	2.50	5.98	12.00	9.12
Blackhawk Wheat Standard Middlings	15.00	15.46	3.00	4.72	9.50	6.26
Ismert-Hincke Milling Co. **Kansas City, Missouri**						
Pure Wheat Bran	15.00	16.02	3.50	5.14	11.00	10.05
Ralph P. Johnson & Son **Potter Place, New Hampshire**						
Johnson's Complete Laying Mash ..	15.00	16.46	3.00	3.22	8.00	7.99
Johnson's Dairy Feed	16.00	17.21	3.00	3.12	9.00	8.64
Johnson's Mash Feed	16.00	18.12	4.00	4.24	8.00	7.03
Johnson's Pig and Hog Feed	15.00	16.99	2.50	3.30	7.00	6.41
I. S. Joseph Co., Inc. **Minneapolis, Minnesota**						
Plain Dried Beet Pulp	9.00	9.11	0.30	0.89	22.50	18.88
Kansas Flour Mills Co. **Kansas City, Missouri**						
Big Flake Pure Wheat Bran	15.00	16.42	3.50	4.20	11.00	8.42
Wheat Gray Shorts with Ground Wheat Screenings	16.00	16.72	3.50	4.29	6.00	5.27
Kasco Mills, Inc. **Waverly, New York**						
Kasco All Mash Chick Starter	18.00	20.88	3.00	4.24	6.50	4.84
Kasco All Mash Grower	15.00	16.55	3.00	4.20	7.00	5.08
Kasco All Mash Laying and Breeding Ration	15.00	15.72	3.00	4.05	7.50	5.36
Kasco Beatsall Milk Grains 16% ...	16.00	16.77	3.50	4.11	10.00	7.32
Kasco Beatsall Milk Grains 20% ...	20.00	21.14	3.50	3.78	10.00	7.31
Kasco Body Builder	15.00	15.59	3.00	4.09	7.00	5.38
Kasco Fitting Ration	14.00	15.68	3.50	4.46	10.00	7.73
Kasco Laying and Breeding Mash ..	20.00	21.32	3.00	3.93	7.50	6.73
Kasco Pig Hog Feed	20.00	21.36	3.50	4.76	8.00	6.62
Keene Grain Co. **Keene, New Hampshire**						
Keene Brand 16% All-In-One Hog Feed	16.00	16.55	3.50	4.42	7.00	6.36
Keene Brand 20% Dairy Feed	20.00	21.41	3.00	3.95	14.00	8.00
Kellogg Company **Battle Creek, Michigan**						
Kellogg's Hominy Feed	10.00	10.01	6.00	7.77	5.00	3.40
Kennel Food Supply Co. **Fairfield, Connecticut**						
Cero-Meato Dog Food	21.00	21.93	2.00	2.35	3.00	2.01

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Keystone Dehydrators **Nazareth, Pennsylvania**						
Keystone Super-Green Dehydrated Alfalfa Meal	17.00	17.78	2.00	2.94	30.00	23.38
King Midas Flour Mills **Minneapolis, Minnesota**						
Clover Leaf Pure Wheat Bran	15.00	16.94	4.00	5.25	12.00	9.38
King Midas Red Dog	16.50	16.42	3.50	3.55	4.00	1.83
Kucler Citrus Pulp Co. **Lake Alfred, Florida**						
Kucler Dried Citrus Pulp	6.00	5.65	3.00	4.89	15.00	10.68
Larabee Flour Mills Company **Kansas City, Missouri**						
Sunfed Winter Wheat Bran with Ground Wheat Screenings	15.00	15.50	3.50	4.47	11.00	9.23
LeRoy Alfalfa Corp. **LeRoy, New York**						
Dehydrated Alfalfa Meal	17.00	20.22	1.50	2.96	30.00	24.26
J. C. Lysle Milling Co. **Leavenworth, Kansas**						
Wheat Bran	14.50	16.60	3.50	4.30	11.00	8.81
Maine Fish Meal Co. **Portland, Maine**						
Maine Concentrate	50.00	53.54	15.00	22.50	1.00	0.12
Maple Leaf Milling Co. **Toronto, Canada**						
Rex Wheat Middlings with Ground Wheat Screenings not exceeding mill run	16.00	17.08	5.00	5.04	9.00	7.80
Marianna Sales Co. **Memphis, Tennessee**						
White Mule Brand 41% Protein Cottonseed Meal or Cake	41.00	40.72	3.50	5.65	13.00	10.30
Maritime Milling Co., Inc. **Buffalo, New York**						
B-B Calf Starter Ration	18.50	18.60	3.00	3.20	8.00	6.42
B-B Complete Laying Ration	16.00	17.38	3.00	3.43	8.50	6.18
B-B Complete Rabbit Feed	17.50	19.04	2.50	3.48	12.00	11.63
B-B Dry and Fresh Cow Fitting Ration	13.00	16.60	3.50	3.90	10.00	8.36
B-B Egg Mash	20.00	22.11	3.50	3.29	8.00	6.24
B-B Goat Feed	13.00	14.76	3.50	3.44	10.00	9.62
B-B Growing Mash	18.00	21.71	3.00	3.28	8.00	6.66
B-B Horse Feed	9.00	12.21	2.00	2.76	10.00	7.09
B-B Pig and Hog Feed	15.00	17.82	3.50	3.78	7.50	5.90
B-B Pure Corn and Oats Half and Half Ground	10.00	11.82	3.00	3.84	7.00	5.09
Dollar $ Maker Egg Mash	18.00	19.57	3.50	3.71	8.50	6.97

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Maritime Milling Co., Inc. (Concluded)						
Hi Test Dairy Feed 20% Pro. Sweetened	20.00	21.58	3.50	3.28	12.00	8.14
Marmico 16% Protein Dairy Feed with Molasses	16.00	19.26	3.00	3.89	12.00	9.40
Sweetened Bull Brand 16 Dairy Ration	16.00	16.81	3.50	4.22	9.00	6.38
Sweetened Bull Brand 20 Dairy Ration	20.00	21.50	3.50	3.82	9.00	6.36
McCabe Grain Co. Saskatoon, Canada						
Ground Sweet Clover and Alfalfa Screenings	17.00	28.89	1.50	6.14	29.00	12.67
Merrimack Farmers' Exchange, Inc. Concord, New Hampshire						
Merrimack All Mash	15.00	16.60	3.50	4.54	7.00	5.68
Merrimack All Mash	15.00	16.20	3.50	4.81	7.00	5.45
Merrimack Breeder Mash	19.50	20.10	4.50	5.04	7.00	5.60
Merrimack Calf Growing Ration	12.00	14.19	3.00	3.72	12.00	7.80
Merrimack Calf Meal	20.00	19.68	4.50	5.56	5.00	7.08
Merrimack Calf Meal	20.00	19.48	4.50	5.74	5.00	7.00
Merrimack Calf Starter	18.00	18.01	4.00	4.14	7.00	5.93
Merrimack Calf Starter	18.00	18.43	4.00	4.69	7.00	6.60
Merrimack Calving Ration	12.00	13.18	3.00	2.83	15.00	12.55
Merrimack Chick and Broiler Mash	18.50	19.61	3.50	4.85	7.00	6.95
Merrimack Chick Starter	20.00	20.31	3.50	4.50	7.00	6.62
Merrimack Chick Starter	20.00	21.50	3.50	4.85	7.00	6.30
Merrimack Complete Layer	15.00	15.94	3.50	4.94	7.00	6.60
Merrimack 16% Dairy Ration	16.00	15.24	3.50	3.52	9.00	6.57
Merrimack 16% Dairy Ration	16.00	16.11	3.50	4.09	9.00	6.74
Merrimack 20% Dairy Ration	20.00	20.23	3.50	3.89	8.50	7.26
Merrimack Fast-Gro Broiler	22.00	21.60	4.00	4.53	4.00	3.45
Merrimack 14% Fitting Ration	14.00	14.94	4.00	3.68	9.00	5.88
Merrimack 14% Fitting Ration	14.00	14.63	4.00	3.73	9.00	5.74
Merrimack Fodder Ration	10.00	12.17	2.50	2.82	20.00	16.30
Merrimack Goat Ration	14.00	15.15	4.00	4.08	9.00	5.40
Merrimack Growing Mash	17.00	18.48	3.50	4.66	8.00	7.29
Merrimack Growing Mash	17.00	17.30	3.50	4.40	8.00	6.06
Merrimack Hog Ration	15.00	16.81	3.00	4.60	7.00	6.52
Merrimack Horse Feed	11.00	12.17	3.50	3.62	10.00	6.20
Merrimack Horse Feed	11.00	11.86	3.50	3.74	10.00	6.06
Merrimack Laying Mash	19.00	20.22	3.50	4.72	7.00	7.27
Merrimack Laying Mash	19.00	19.40	3.50	3.97	7.00	6.40
Merrimack Pig Feed	17.00	16.66	3.00	4.34	7.00	5.45
Merrimack Pig Feed	17.00	18.87	3.00	4.75	7.00	5.66
Merrimack Provender	9.00	10.63	4.00	3.70	10.00	5.86
Merrimack Rabbit Pellets	14.00	14.89	4.00	4.31	8.50	5.43
Merrimack 18% Special Dairy Ration	18.00	17.64	4.00	3.71	8.50	6.19
Merrimack 18% Special Dairy Ration	18.00	19.22	4.00	3.32	8.50	5.96
Merrimack Stock Feed	9.00	12.08	2.50	3.81	12.00	7.64
Merrimack Turkey Breeder Mash	20.00	20.97	3.25	4.29	7.00	5.29
Merrimack Turkey Growing Mash	20.00	20.49	3.00	5.48	8.00	5.69
Merrimack Turkey Starter Mash	24.00	24.43	3.25	5.81	7.00	5.26
Geo. Q. Moon Co., Inc. Binghamton, New York						
Moon's Fitting Ration	13.00	14.32	3.00	4.16	9.00	7.49

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
George Q. Moon & Co., Inc. (Concluded)						
Moon's Hog Feed	13.00	13.80	3.00	3.61	12.00	10.45
Moon's 90 Horse Feed	9.00	13.35	1.50	3.58	10.00	9.40
Moon's Special A Dairy 16% Ration	16.00	19.18	3.00	4.10	12.00	7.88
Moon's Special A Dairy 20% Ration	20.00	21.54	3.00	3.89	10.00	10.39
Moon's Super Broiler Ration	20.00	20.53	3.00	4.24	4.50	3.21
N. E. Complete Laying Mash	16.00	17.08	3.00	4.27	9.00	8.81
U. S. 20% Dairy Ration	20.00	20.35	3.00	3.44	12.00	14.92
John Morrell & Co. Ottumwa, Iowa						
Red Heart Dog Food Kibbled	25.00	24.03	2.00	3.34	3.00	1.10
Morrison & Quirk Hastings, Nebraska						
Morrison & Quirk 17% Dehydrated Alfalfa Pellets	17.00	20.10	1.50	3.02	27.00	22.45
Jas. F. Morse & Co. Somerville, Massachusetts						
Morse's 50% Meat and Bone Scraps	50.00	48.95	8.00	10.14	....	....
National Alfalfa Dehydrating & Milling Co. Lamar, Colorado						
Jack Rabbit 17% Dehydrated Alfalfa Meal	17.00	19.44	1.50	3.04	27.00	19.35
Nebraska Farm Products, Inc. Cozad, Nebraska						
Emerald Brand 15% Alfalfa Dairy Pellets	15.00	14.45	1.50	1.55	30.00	32.47
New England Grain Co. Portland, Maine						
New England Complete Laying Mash	15.00	17.21	4.00	4.71	8.00	7.36
New England 16% Dairy Feed	16.00	17.16	3.50	3.92	11.00	8.64
New England Egg Mash	20.00	20.32	4.00	4.99	8.00	7.23
New England Fitting Ration	14.00	17.25	4.00	3.30	10.00	8.92
New England Milkway 20% Dairy Feed	20.00	19.32	4.00	3.90	10.00	9.16
New England Sweetened Horse Feed	9.00	11.82	3.00	3.99	12.00	7.52
New England 18% Test Ration	18.00	19.35	4.00	5.83	10.00	8.90
3 in 1 Starting, Growing and Laying	18.00	19.22	4.00	4.75	7.00	6.54
Northern Illinois Cereal Co. Lockport, Illinois						
Re-Ground Oat Feed	3.50	3.76	1.25	1.08	35.00	31.35
Ogden Grain Co. Utica, New York						
Biddy Mash	20.00	23.16	4.00	4.69	10.00	8.83
Cloverbloom Dairy Feed	20.00	20.05	3.50	4.73	12.00	8.19
Ogden 20% Breeder	20.00	21.58	4.00	5.04	8.00	8.45
Ogden Complete Pellets	16.00	17.86	3.00	5.06	9.00	9.29

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Ogden Grain Co. (Concluded)						
Ogden Complete Starter-Grower-Layer-Breeder	16.00	18.74	4.00	5.23	9.00	9.25
Ogden 16% Dairy Feed	16.00	16.02	4.00	3.50	8.00	7.94
Ogden Fitting Ration	12.00	14.40	4.00	4.72	10.00	8.01
Ogden Growing Mash	18.00	19.52	4.00	4.78	9.00	8.03
Ogden Horse Feed	10.00	11.15	3.00	3.77	9.00	6.60
Ogden Layer and Breeder	20.00	20.62	4.00	5.26	9.00	7.14
Ogden 22% Pellets	22.00	21.42	4.00	5.04	9.00	7.65
Ogden Pig Feed	14.00	16.11	3.50	4.82	12.00	7.66
Ogden Rabbit Pellets	16.50	16.72	3.00	4.20	13.00	11.96
Ogden Starter and Broiler Ration	20.00	21.62	4.00	5.18	9.00	7.01
Old Trusty Dog Food Co., Inc. Needham Heights, Massachusetts						
Old Trusty All Terrier Kibbled	25.00	27.50	2.50	2.95	3.00	1.85
Osceola Alfalfa Milling Co. Osceola, Arkansas						
Chief Brand Dehydrated Alfalfa Meal 17%	17.00	18.78	1.50	2.34	27.00	22.84
Oswego Soy Products Corporation Oswego, New York						
Blended Soybean Oil Meal Toasted	44.00	45.14	2.50	5.94	7.00	5.32
35% Concentrate	35.00	38.61	4.00	3.78	7.00	5.14
Extracted Soybean Oil Meal Toasted	44.00	44.83	0.50	2.64	7.00	5.29
Park & Pollard Co. Buffalo, New York						
Corn and Oats Half and Half	10.00	11.34	3.00	3.89	8.00	5.56
Doublex 20% Dairy Ration	20.00	20.10	3.00	3.57	12.00	7.46
Go-Tu-It Pig and Hog Ration	15.00	18.25	2.50	3.83	8.00	7.08
Hi Valu Scratch Pellets	12.00	13.58	2.50	3.37	6.50	5.33
Lay or Bust All Mash Grower	14.50	18.04	2.50	4.01	7.00	5.79
Lay or Bust All Mash Layer	15.00	17.64	2.50	4.00	7.00	5.75
Lay or Bust Breeder Mash	20.00	20.44	2.50	4.08	7.50	5.56
Lay or Bust Broiler Mash	20.00	21.32	2.50	3.80	7.00	4.82
Lay or Bust Chick Starter	20.00	22.02	2.50	3.47	7.00	4.52
Lay or Bust Egg Mash	20.00	18.33	2.50	3.99	7.50	5.16
Lay or Bust Fleshing Pellets	15.00	17.90	2.50	3.52	7.00	6.50
Lay or Bust Growing Feed	18.00	19.48	2.50	3.64	7.50	6.22
Lay or Bust Growing Pellets	18.00	20.09	2.50	4.12	7.50	5.84
Lay or Bust Laying Pellets	20.00	20.22	2.50	3.91	7.50	5.42
Lay or Bust Poultry Fitting Ration	14.00	15.37	2.50	3.68	9.50	8.33
Lay or Bust Turkey Grower	20.00	21.62	2.50	3.70	7.00	5.38
Lay or Bust Turkey Starter	25.00	27.84	2.50	3.74	6.50	6.15
Milk Maid Bulky Sweet Dairy Feed	12.00	13.49	2.50	3.99	14.00	11.04
Milk Maid Calf Meal	20.00	25.04	3.50	3.59	7.00	5.17
Milk Maid Calf Starter Mix	19.00	19.01	3.50	3.55	8.00	5.82
Milk Maid Calf Starter Pellets	22.00	25.04	3.50	3.51	7.00	5.64
Milk Maid 32% Dairy Mix	32.00	32.66	2.50	3.25	9.00	5.58
Milk Maid 16% Dairy Ration	16.00	16.82	3.50	3.26	10.00	5.86
Milk Maid 20% Dairy Ration	20.00	21.58	3.50	2.78	10.00	5.83
Milk Maid Fitting Ration	14.00	15.07	3.00	3.50	9.00	8.62
Milk Maid Goat Feed	16.00	18.08	3.00	4.21	9.00	6.62
Milk Maid Test Cow Ration	18.00	19.05	4.00	4.28	9.00	6.87

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Park & Pollard Co. (Concluded)						
Munchy Dog Food	26.00	30.33	4.00	4.81	4.50	2.50
Park & Pollard Rabbit Pellets	14.00	15.50	2.50	4.12	12.00	5.41
Park & Pollard Stock Feed	9.00	11.42	2.00	4.59	12.00	11.30
Special Milk Maid 16% Dairy Ration	16.00	16.94	3.50	3.88	10.00	6.56
Special Milk Maid 16% Dairy Ration	16.00	19.44	3.50	4.33	10.00	7.54
Special Milk Maid 20% Dairy Ration	20.00	22.15	3.50	3.92	10.00	7.29
Yankee Horse Feed	10.00	11.78	2.50	4.39	10.00	6.55
Parrish & Heimbecker, Ltd. **Toronto, Canada**						
"Parrheim" Pure Wheat Bran	15.00	16.03	3.50	4.26	11.50	10.48
Pasco Packing Co. **Dade City, Florida**						
Sugar Sweet Citrus Pulp	6.00	5.39	2.75	3.06	14.00	11.42
Pilgrim Feed Co. **Providence, Rhode Island**						
A-Z Pilgrim All Purpose Complete Ration	15.50	17.95	3.00	4.59	8.50	6.68
A-Z Pilgrim 16% Dairy Ration	16.00	20.49	3.00	4.29	9.00	6.07
A-Z Pilgrim Egg and Breeder Mash	20.00	21.89	3.50	4.08	7.50	5.74
A-Z Pilgrim 12% Fitting Ration	12.00	14.36	3.50	3.81	9.00	6.41
A-Z Pilgrim "Free Choice" Ration	14.00	16.42	3.00	3.78	9.00	6.66
A-Z Pilgrim 18% Layer Mash	18.00	19.88	3.00	3.97	8.50	6.87
A-Z Pilgrim Starter Broiler Mash	20.00	22.68	3.00	4.18	7.00	5.20
Pilgrim All Purpose Complete Ration Starter-Grower-Layer	16.00	18.35	3.50	4.66	8.00	7.59
Pilgrim Egg and Breeder Mash	20.00	18.85	4.00	5.12	7.00	5.38
Pilgrim Egg and Breeder Mash	20.00	21.19	4.00	4.93	7.00	7.61
Pilgrim Egg and Breeder Mash	20.00	20.10	4.00	3.52	7.00	7.92
Pilgrim 18% Grower Mash	18.00	19.57	3.50	4.31	8.00	7.10
Pilgrim 18% Layer Mash	18.00	20.01	3.50	5.04	8.00	7.99
Pillsbury Mills, Inc. **Minneapolis, Minnesota**						
Pillsbury's XX Daisy Wheat Red Dog	16.00	19.40	4.00	4.66	4.00	3.30
Pillsbury's Hard Wheat Bran with Ground Wheat Screenings	14.00	15.64	4.00	4.30	12.00	9.78
Pillsbury's 44% Protein Soybean Oil Meal	44.00	44.48	0.50	0.55	7.00	6.99
Portage Valley Milling Co. **Bradner, Ohio**						
Valley Green Alfalfa Meal	13.00	13.18	1.00	1.78	33.00	27.98
Valley Green Dehydrated Alfalfa Meal	17.00	16.33	1.50	2.78	28.00	21.02
Publicker Industries, Inc. **Philadelphia, Pennsylvania**						
25% Corn Distillers Dried Grains	25.00	29.64	8.00	11.23	15.00	8.64
Quaker Oats Co. **Chicago, Illinois**						
Bell Cow Shorts	16.00	19.44	4.00	6.38	8.00	7.38
Big Egg Laying Mash	20.00	20.44	3.00	3.76	8.00	7.78
Ful-O-Pep Broiler Mash	19.00	19.75	3.50	3.54	8.00	6.08

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Quaker Oats Co. (Concluded)						
Ful-O-Pep Crate Fattener	12.50	13.58	3.00	4.48	8.00	6.56
Ful-O-Pep 16% Dairy Ration	16.00	16.50	3.50	3.99	11.00	9.06
Ful-O-Pep 20% Dairy Ration	20.00	19.00	3.50	3.94	11.00	8.44
Ful-O-Pep Fitting Ration	14.00	14.15	3.50	3.56	11.00	8.78
Ful-O-Pep Growing Mash	19.00	19.01	4.00	6.00	8.00	7.30
Ful-O-Pep Laying Mash	20.00	20.66	3.50	3.69	8.00	7.53
Peterborough Oat Feed	3.50	4.51	1.00	1.78	32.50	29.11
Quaker Green Cross Horse Feed	10.00	11.78	2.50	3.10	12.00	10.09
Quaker Pig-N-Hog Feed	16.00	17.47	3.50	3.68	10.00	8.67
Quaker 16% Protein Dairy Ration	16.00	16.77	2.50	2.54	12.00	10.33
Quaker 20% Protein Dairy Ration	20.00	20.66	3.00	3.12	12.00	11.78
Quaker Schumacher Feed	12.00	12.56	3.00	3.48	12.00	8.86
Quaker Sugared Schumacher Feed	12.00	14.01	2.50	2.86	12.00	8.73
Ralston Purina Co. St. Louis, Missouri						
Northeastern All-In-One Mash	15.50	16.60	3.00	3.66	9.00	7.77
Northeastern 18% Creamery Ration	18.00	19.31	3.00	4.18	12.00	10.55
Northeastern Special Dairy 18%	18.00	21.32	3.00	3.76	15.00	12.87
Purina B & M Cow Chow	16.00	16.20	3.50	4.56	10.00	7.74
Purina Breeder Lay Chow	22.00	21.34	3.50	4.28	8.00	4.65
Purina Breeder Layena (Complete Ration)	15.50	17.30	3.00	4.35	8.00	5.38
Purina Broiler Chow	18.00	17.25	3.50	4.02	8.00	4.60
Purina Broiler Chow (Special)	18.00	19.09	3.50	4.47	4.00	3.46
Purina Bulky Las	10.00	11.51	2.00	2.38	15.00	14.78
Purina Calf Startena	19.50	22.28	2.50	3.64	9.50	8.01
Purina Chick Chow (Fine)	10.00	9.68	2.00	2.44	4.00	1.39
Purina Chick Growena	17.00	17.99	3.00	4.04	7.00	4.76
Purina Chick Growing Chow	23.00	22.55	3.50	4.22	8.00	6.64
Purina Chick Startena	20.00	21.94	3.50	4.69	7.00	4.37
Purina Chick Startena-Checker-Etts	20.00	20.88	3.00	4.68	5.00	3.58
Purina Cow Chow	18.00	19.66	3.00	3.78	12.00	7.84
Purina Cow Chow Supplement	24.00	25.61	3.00	3.92	11.00	6.84
Purina Dry and Freshening Chow	12.50	13.45	3.00	3.63	14.00	8.27
Purina Eastern Cow Chow	20.00	20.80	3.00	3.93	12.00	7.61
Purina Goat Chow	16.00	17.04	3.50	4.41	10.00	6.70
Purina Hog Fatena	14.00	15.94	3.00	3.91	8.00	6.42
Purina Lay Chow	20.00	22.25	3.00	4.43	8.00	6.86
Purina Layena (Complete Ration)	15.50	16.42	3.00	4.31	8.00	5.84
Purina Omolene	10.00	11.25	3.00	3.78	11.00	7.05
Purina Poultry Breeder Checkers	15.50	17.16	3.00	3.98	8.00	5.49
Purina Rabbit Chow Checkers (Complete Ration)	20.00	21.14	2.00	3.78	18.00	13.85
Purina Turkey Growena	20.00	21.05	3.50	5.41	7.00	6.60
John Reardon & Sons Cambridge, Massachusetts						
Register Brand 45% Protein Meat and Bone Scrap	45.00	45.57	8.00	12.25	....	....
Reliance Feed Co. Minneapolis, Minnesota						
Dried Beet Pulp	9.00	8.52	0.30	0.66	22.50	19.96
Robin Hood Flour Mills, ltd. Moose Jaw, Canada						
Superior Wheat Middlings	16.50	16.68	3.50	3.62	4.50	3.72

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Rodney Milling Co. **Kansas City, Missouri**						
Heart of America Pure Wheat Bran	14.50	15.85	3.50	4.04	10.00	8.80
Russell-Miller Milling Co. **Minneapolis, Minnesota**						
Hard Wheat Occident Bran	14.00	17.47	4.00	5.24	11.50	8.95
Allen V. Smith, Inc. **Marcellus Falls, New York**						
Smith's Barley Feed	13.00	15.10	2.00	4.51	14.00	8.09
South End Hay & Grain **Manchester, New Hampshire**						
Feedboard Breeder Mash	20.00	20.31	4.00	4.58	7.00	8.01
Feedboard Breeder Mash	20.00	21.50	4.00	4.38	7.00	5.39
Feedboard Growing Mash	18.00	19.30	3.00	4.90	7.00	8.35
Feedboard Growing Mash	18.00	18.48	3.00	4.27	7.00	5.50
Feedboard Super Starter	21.00	21.05	4.00	4.48	4.00	3.09
Soya Processing Co. **Wooster, Ohio**						
Soybean Oil Meal	44.00	47.89	0.50	0.80	7.00	5.49
Soyex Corporation **Columbus, Ohio**						
Arrow New Process Extracted Soybean Oil Meal	44.00	46.71	0.50	1.18	7.00	5.26
F. B. Spaulding Co. **Lancaster, New Hampshire**						
Miracle Complete Egg Mash	16.00	17.47	3.00	4.13	9.00	6.32
Provender	10.00	10.01	3.50	3.51	9.00	4.61
Spaulding's 20% Dairy Ration	20.00	21.06	3.50	4.04	9.00	6.65
Spaulding & Sons **Milford, New Hampshire**						
Spaulding's All Mash Grower	16.00	15.88	3.50	4.01	7.50	6.92
Spaulding's All Mash Layer	16.00	16.68	3.50	4.32	7.50	6.81
Spaulding's 20% Layer	20.00	20.49	3.50	4.32	7.50	6.22
Spaulding's 20% Layer and Breeder	20.00	20.40	3.50	4.32	7.50	6.28
Spaulding's Starter Broiler	20.00	20.36	3.50	4.46	7.00	5.84
Spaulding's Superior Ration	20.00	21.10	5.00	4.91	2.50	2.26
Spencer Kellogg & Sons, Inc. **Buffalo, New York**						
Spencer Kellogg's O. P. Linseed Oil Meal	34.00	36.16	3.50	4.25	9.00	8.51
Springfield Milling Corp. **Springfield, Minnesota**						
White Swan Standard Wheat Middlings with Screenings	16.00	17.82	4.00	5.10	9.00	6.67
A. E. Staley Mfg. Co. **Decatur, Illinois**						
Staley's Corn Gluten Feed	23.00	24.43	1.50	2.96	8.00	6.83

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
A. E. Staley Mfg. Co. (Concluded)						
Staley's Corn Gluten Meal	41.00	42.25	1.00	1.96	6.00	3.58
Staley's 41% Protein Soybean Oil Meal	41.00	44.61	3.50	4.11	7.00	6.45
Stratton & Co. Concord, New Hampshire						
Standard Wheat Middlings	14.00	15.15	4.00	4.43	8.00	3.66
Stratton & Co.'s Fancy Wheat Bran	14.00	12.72	4.00	4.12	11.00	10.07
Stratton & Co.'s Provender	9.00	10.07	4.00	5.02	10.00	4.13
Stratton & Co.'s Stock Feed	7.50	7.75	2.83	2.84	14.43	13.98
Stratton & Co.'s Wheat Mixed Feed	13.50	14.41	4.00	4.58	8.00	7.90
Suni Citrus Products Co. Haines City, Florida						
Suni Citrus Pulp with Minerals	7.00	6.20	6.00	5.00	20.00	13.47
Sweet Suni Citrus Pulp	6.00	6.17	4.00	6.43	12.00	14.02
Sweet Suni Citrus Pulp with Minerals	6.00	7.70	4.00	11.29	12.00	14.22
Swift & Co. Champaign, Illinois						
Swift's 42% Protein Soybean Oil Meal	42.00	43.39	3.50	6.97	7.00	5.31
Unity Grist Mill E. Manchester, New Hampshire						
Super Ration	20.00	20.70	5.00	5.27	3.50	2.78
Unity Broiler Ration	19.00	20.80	4.00	4.39	7.00	6.03
Unity Grist Mill Breeder Mash	20.00	19.66	3.00	5.05	7.00	5.92
Unity Grist Mill 16% Dairy Ration	16.00	19.00	3.50	4.78	8.00	7.56
Unity Grist Mill 20% Dairy Ration	20.00	20.71	3.50	4.89	10.00	8.60
Unity Grist Mill Fitting Ration	14.00	16.24	3.50	4.05	8.00	8.12
Unity Grist Mill Growing Mash	18.00	18.01	3.00	4.64	7.00	6.78
Unity Grist Mill Horse Feed	11.00	11.33	3.50	4.01	8.00	5.60
Unity Grist Mill Laying Mash	18.00	19.48	3.00	5.07	7.00	7.08
Unity Grist Mill Pig and Hog Feed	17.00	19.31	4.00	5.09	7.00	7.84
Unity Grist Mill 4-Way Mash	15.00	19.57	3.50	4.38	7.00	6.25
Valier & Spies Milling Co. St. Louis, Missouri						
Valier's Wheat Bran	14.50	15.98	3.50	3.98	10.50	9.09
Valley Dehydrating Co. Kingsburg, California						
Fish-Sol	24.00	24.08	5.00	6.64	17.00	17.63
Wayne County Grangers Feed Corporation Clyde, New York						
New England Quality 16% Dairy Feed Containing Beet Pulp	16.00	18.12	4.00	5.43	10.00	7.28
Superior Complete Growing Mash	16.00	19.26	3.50	4.35	8.00	7.03
Superior 20% Dairy Feed with Beet Pulp	20.00	19.76	3.50	4.80	10.00	9.72
Superior Fitting Ration	14.00	14.94	3.50	4.23	9.00	6.91
Superior Growing Mash	18.00	18.96	3.50	4.01	8.00	7.66
Superior Hog Ration	16.00	19.18	3.50	3.98	7.00	9.96
Superior Horse Feed	10.00	11.34	3.00	3.47	9.00	8.75
Superior Laying Mash	18.00	19.92	3.50	4.02	8.00	7.59

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
H. K. Webster Co. Lawrence, Massachusetts						
Blue Seal All Mash Breeders Ration	15.00	17.38	3.50	4.56	6.50	4.87
Blue Seal All Mash Egg Ration	15.00	17.69	3.50	4.61	6.50	5.99
Blue Seal All Mash Growing Ration	14.50	16.34	3.50	5.06	6.00	6.21
Blue Seal Breeders Mash	20.00	21.01	3.50	5.78	7.00	6.30
Blue Seal Broiler Mash	24.00	25.30	4.00	6.12	6.50	6.11
Blue Seal Calf Grower	12.00	12.74	3.00	3.65	12.00	9.81
Blue Seal Chick Starter	19.00	20.58	3.50	5.08	6.50	6.48
Blue Seal Corn-Oats Provender	9.50	11.51	4.00	5.73	7.00	6.94
Blue Seal "16" Dairy Ration (coarse)	16.00	18.95	3.50	5.01	9.00	8.03
Blue Seal "20" Dairy Ration (coarse)	20.00	23.95	3.50	5.07	9.00	7.65
Blue Seal Egg Mash	20.00	22.28	3.50	5.11	6.50	6.73
Blue Seal Fine "16" Dairy Ration	16.00	17.08	3.50	4.51	9.00	7.66
Blue Seal Fine "20" Dairy Ration	20.00	20.32	3.50	4.22	9.00	7.38
Blue Seal Fitting Ration with Vitamin D Yeast	14.00	16.50	3.50	3.94	9.00	7.74
Blue Seal Growing Mash	18.00	20.62	3.50	5.35	7.00	6.48
Blue Seal Horse Feed	10.00	10.16	3.00	3.64	9.00	5.09
Blue Seal Pig Feed with Vitamin D Yeast	15.00	16.46	3.00	5.45	6.00	4.67
Blue Seal Richford 20 Dairy Ration	20.00	22.51	3.50	3.94	10.00	7.42
Blue Seal Richford Economizer Dairy Ration	16.00	19.04	3.00	3.12	15.00	11.86
Blue Seal Stock Feed	8.50	10.72	3.00	4.18	17.00	11.36
Blue Seal Succulent Feed	10.00	12.73	1.50	2.52	18.00	13.55
Blue Seal Super Mash	20.00	24.87	4.00	5.56	4.00	3.58
Blue Seal Super Starter and Broiler	20.00	22.29	4.00	4.42	4.00	3.39
Blue Seal Super Starter and Broiler	20.00	20.62	4.00	5.12	4.50	4.04
Blue Seal Test Ration	18.00	18.95	4.00	4.39	9.00	7.45
Blue Seal Turkey Growing	20.00	20.62	3.50	5.65	7.00	6.53
Sulfaquinoxaline Blue Seal Super Starter and Broiler	20.00	21.84	4.00	4.29	4.00	3.30
Western Condensing Company San Francisco, California						
Peebles Dried Whey Product with Whey Fermentation Solubles (Ribolac)	12.00	12.39	0.50	0.57	0.10	0.04
Weston Mills, Inc. Weston, Ohio						
Westco 17% Dehydrated Alfalfa Meal Fine Ground	17.00	17.12	1.50	2.57	27.00	23.88
Whitmoyer Laboratories, Inc. Myerstown, Pennsylvania						
Clo-Meal	38.00	42.55	10.00	15.29	3.75	3.88
Flav-A-Dee	24.00	30.33	18.00	16.81	10.00	8.68
Protosep Pellets	19.00	22.20	4.00	9.09	7.00	6.18
Wisconsin Products Sales, Inc. Watertown, Wisconsin						
Dried Beet Pulp	9.00	9.24	0.30	0.66	22.50	20.18

* Protein and fat not less than, crude fiber not more than.

1954